

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

Claims 1-196 cancelled.

Claim 197 (Currently amended). A device for arraying a plurality cells into discrete and predetermined locations for further experimentation, said device comprising a substrate having a plurality of magnetic receptacles, wherein each of said plurality of magnetic receptacles comprises a magnetic field gradient wherein said magnetic field gradient is localized to immobilize one to about five cells within said each of said plurality of magnetic receptacles and wherein said each of said plurality of magnetic receptacles is situated in, on or associated with said substrate in a predetermined location discrete from other of said plurality of magnetic receptacles and in a discrete and predetermined location wherein said cells are associated with magnetic material beads at the time that said cells are immobilized within said plurality of magnetic receptacles and wherein said magnetic receptacles are disposed in a two-dimensional array on the substrate.

Claim 198 (Canceled).

Claim 199 (Original). The device of claim 197 wherein said cells are hybridoma cells.

Claim 200 (Original). The device of claim 197 wherein the substrate is fabricated from a material selected from the group consisting of glass, urethane, rubber, molded plastic, polymethylmethacrylate, polycarbonate, polytetrafluoroethylene, polyvinylchloride, polydimethylsiloxane, and polysulfone.

Claim 201 (Canceled).

Claim 202 (Previously presented). The device of claim 197 further comprising a layer on top of said substrate wherein said layer has micro-gaps positioned over said magnetic receptacles.

Claim 203 (Currently amended). The device of claim 197 further comprising a cell isolation device wherein said cell isolation device ~~shares~~ comprises a matching periodicity with said plurality of magnetic receptacles and ~~is located within said substrate or is mated with said~~ substrate and wherein said cell isolation device is capable of isolating said one to about 5 cells immobilized in one of said plurality of magnetic receptacles from other of said cells immobilized in said other of said plurality of magnetic receptacles ~~isolated and~~ arrayed within the cell isolation device.

Claim 204 (Previously presented). The device of claim 203, wherein wells of the cell isolation device have micro through-holes and micro through-hole walls.

Claim 205 (Original). The device of claim 204, wherein the micro through-holes comprise a semi-permeable membrane opposite the substrate, wherein the membrane restricts cell movement between wells and is permeable to fluid.

Claim 206 (Original). The device of claim 205 wherein the micro through-hole walls are canted or perpendicular to the substrate.

Claim 207 (Original). The device of claim 203 wherein the cell isolation device is mated to said substrate such that when the substrate is removed, the cells remain in the cell isolation device.

Claim 208 (Currently amended). The device of claim 207 wherein said plurality of magnetic receptacles further comprise immobilized cells associated with said magnetic material wherein said plurality of magnetic receptacles are mated to said cell isolation device such that said cells are capable of being transferred from said plurality of magnetic receptacles to ~~the~~ said cell isolation device by centrifugal force such that a substantial number of said cells is transferred to said cell isolation device.

Claim 209 (Original). The device of claim 197 wherein the substrate is coated with a hydrophobic agent.

Claim 210 (Original). The device of claim 209 wherein the hydrophobic agent is selected from the group consisting of teflon, perfluorinated plastic, polyethylene glycol, ethylene oxide-terminated trichlorosilane, and hydrophobic alkyltrichlorosilane.

Claim 211 (Original). The device of claim 197 wherein the substrate is coated with an anti-coagulant.

Claim 212 (Original). The device of claim 211 wherein the anti-coagulant is selected from the group consisting of heparin, heparin fragments, tissue-type plasminogen activator (tPA), urokinase (uPA), Hirudan, albumin, anti-platelet receptor GPIB antibodies, anti-platelet receptor GPIIb/IIIa antibodies, and anti-von Willebrand Factor (vWF) antibodies.

Claim 213 (Original). The device of claim 197 wherein the magnetic receptacle comprises a permanent magnet.

Claim 214 (Original). The device of claim 197 wherein the magnetic receptacle comprises a highly permeable magnetic material.